



**PATENT**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants : PRASHANT et al.

Appl. No. : 10/617,165      Examiner: To be assigned

Filed : July 8, 2003      Art Unit: To be assigned

For : SILICA-RUBBER MIXTURES HAVING IMPROVED  
HARDNESS

Attorney Docket No.: 0137-OS

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop - Patent Applications  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Listed on the accompanying Form PTO-1449 are documents that may be considered material to the examination of this application and are submitted in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97, and 1.98. Copies of the foreign documents and articles are provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue.

The applicants reserve the right to establish the patentability of the claimed

Information Disclosure Statement

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This statement should not be construed as a representation that an exhaustive search has been made or that there does not exist information more material to the examination of the present patent application. The Examiner is specifically requested not to rely solely on the material submitted with this statement.

The applicants request that the examiner initial and return a copy of the enclosed Form PTO-1449 and indicate in the official file history of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 07-0888.

20JAN04

Date



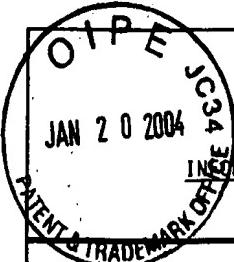
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FORM PTO-1449

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APPLICATION NO.  
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## APPLICANTS

Prashant et al.

## FILING DATE

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## GROUP

To be assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	3,502,704	Mar. 24, 1970	McKellar	260	448.8	Jul. 15, 1965
	AB1	3,692,812	Sept. 19, 1972	Berger	260	448.2	Apr. 21, 1971
	AC1	3,922,436	Nov. 25, 1975	Bell et al.	428	375	Sept. 13, 1974
	AD1	3,957,718	May 18, 1976	Pochert et al.	260	38	Dec. 26, 1974
	AE1	4,060,539	Nov. 29, 1977	Seiler et al.	260	448.8	Feb. 24, 1976
	AF1	4,184,998	Jan. 22, 1980	Shippy et al.	260	42.15	Nov. 30, 1977
	AG1	4,519,430	May 28, 1985	Ahmad et al.	152	209	Jul. 29, 1982
		4,704,425	Nov. 3, 1987	Lagarde et al.	524	492	Nov. 20, 1984
	AH1	4,820,751	Apr. 11, 1989	Takeshita et al.	523	215	Apr. 25, 1988
		4,942,192	July 17, 1990	Yasuda et al.	524	44	Aug. 26, 1988
		5,116,886	May 26, 1992	Wolff et al.	523	209	Feb. 15, 1991
	AI1	5,266,620	Nov. 30, 1993	Shinoda et al.	524	495	Sep. 25, 1992
	AJ1	5,324,806	June 28, 1994	Wengrovius et al.	528	10	Mar. 12, 1993

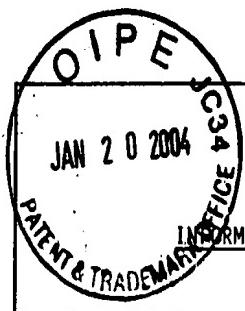
## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	2508931		DE			Yes No
	AM1	98/17391		PCT			Yes No
	AN1	10082/97		AU			Yes No
	AO1	631,982		EP			Yes No
	AP1	63270751		JP			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AS	1	Gornowicz et al., Preparation of Silylalkanethiols, Organic Research Lab., Dow Corning Corp., XP-002084433, 2918-2924, 1968.	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
		5,387,637	Feb. 7, 1995	Sullivan	524	493	Aug. 20, 1992
		5,510,430	Apr. 23, 1996	Rubinsztajn et al.	525	478	Mar. 31, 1995
		5,770,754	June 23, 1998	Scholl	556	427	Mar. 10, 1997
		5,886,074	Mar. 23, 1999	Sandstrom et al.	524	291	Mar. 4, 1997
		6,005,027	Dec. 21, 1999	Guillet et al.	523	209	Aug. 16, 1996
		6,028,143	Feb. 22, 2000	Mukai	525	232	Nov. 10, 1998
		6,037,418	Mar. 14, 2000	Mukai et al.	525	242	Mar. 18, 1998
		6,072,012	June 6, 2000	Juen et al.	525	478	Dec. 31, 1998
		6,075,087	June 13, 2000	Juen et al.	524	588	Dec. 31, 1998
		6,127,468	Oct. 3, 2000	Cruse et al.	524	225	Feb. 19, 1999
		6,140,393	Oct. 31, 2000	Bomal et al.	523	213	Jan. 10, 1997
AA1		6,204,339	Mar. 20, 2001	Waldman et al.	525	350	Feb. 5, 1999

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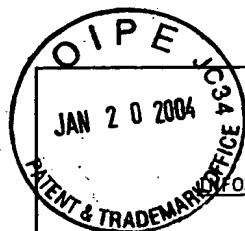
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	78155/1995		JP			Yes No
	AM1	186606/1995		JP			Yes No
	AN1	1113036 A2		EP			Yes No
	A01	10204221		JP			Yes No
	AP1	2000031877		KR			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AS	1	J. Van Alphen, Rubber Chemicals, Plastics and Rubber Research Institute TNO, Delft, Holland, 1973, pages 2-9.
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DATE CONSIDERED



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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AB1	6,274,753	Aug. 14, 2001	Krafczyk et al.	556	405	Nov. 13, 2000
		6,303,821	Oct. 16, 2001	Wideman et al.	564	328	Nov. 11, 1999
	AC1	6,414,061	July 2, 2002	Cruse et al.	524	262	Aug. 21, 1998
		6,251,976	June 26, 2001	Scholl et al.	524	386	Mar. 26, 1999
	AD1	6,528,673	Mar. 4, 2003	Cruse et al.	556	427	Nov. 9, 2001

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	894819		EP			Yes No
	AM1	964028		EP			Yes No
	AN1	1172406		EP			Yes No
	AO1	99/22951		WO			Yes No
		2,556,709		FR			
	AP1	1016442 A2		EP			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	1	V	The Vanderbilt Rubber Handbook, R.F. Ohm, ed. (R.T. Vanderbilt Company, Inc., Norwalk, Connecticut, 1990), pages 397-426.
AS	1	c	Manual for the Rubber Industry, T. Kempermann, S. Koch, and J. Sumner, eds. (Bayer AG, Leverkusen, Germany, 1993).
AT	1	*	Vanderbilt Rubber Handbook (1978), pages 344-46.

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AJ1						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AM1						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

		'	J. Am. Chem. Soc., 71, 3570 and 3571 (1949).
		'	Voronkov et al., in Inst. Org. Khim., Irkutsk, Russia.
		'	Wengrovius et al., XXIIth Organosilicon Symposium, Troy NY, March 1994.
		'	Wengrovius et al., 215th ACS National Meeting, Dallas, March 29-April 2 (1998).
		'	Wengrovius et al., Polymer Preprints, Vol. 39, No. 1, March 1998, pages 512 and 513.
		'	D.C. Copley in Polymer Science and Technology (Plenum) 1984, 29 (Adhesion Chemistry) pages 257-267.

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